

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Elaeagnus angustifolia***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Fruit	40	500	-0.25340050910901013	
102	CAFFEIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
102	CAFFEIC-ACID	Fruit	--	--		Kusova, R. D., Kazakov, A. L., Luk'yanchikov, M. S. 1988. Phenolic Compounds From Fruit of <i>Elaeagnus angustifolia</i> . Chem. Nat. Comp. 24 3: 392-393. Pyatigorsk Farm Inst Pyatigorsk USSR.
1	CALLIGONINE	Bark	--	--		
43	CATECHIN	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
77	CHLOROGENIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
51	ELLAGIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
40	EPICATECHIN	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ETHYL-CINNAMATE	Flower	--	790	1	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
61	FERULIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GLUTAMIC-ACID	Root	--	0.48	-1.2905101027270787	Wheller, C. T., Bond, G. 1970. The Amino Acids of Non-Legume Root Nodules. Phytochemistry 9: 705-708. Dept. Botany Univ. Glasgow Glasgow, Scotland.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	HARMAN	Shoot	--	--		
7	HARMAN	Root	--	--		Gill, S., Raszeja, W. 1971. Chromatographic Analysis of Harman Derivatives in Some Plant Raw Materials. Gdansk Tow Nauk Rozpr Wydz 1971 8: 137-143. Akad Med Gdansk Poland.
7	HARMAN	Root Bark	--	--		Gill, S., Raszeja, W. 1973. Chromatographic Analysis of Harman Alkaloid Derivatives in Some Plant Raw Materials. Rozpr Wydz 3 Nauk Mat-Przyr Gdansk Tow Nauk 8: 137-. Acad Med Danzig Poland.
23	HARMINE	Root	--	--		Gill, S., Raszeja, W. 1971. Chromatographic Analysis of Harman Derivatives in Some Plant Raw Materials. Gdansk Tow Nauk Rozpr Wydz 1971 8: 137-143. Akad Med Gdansk Poland.
23	HARMINE	Shoot	--	--		Lutomski, J., Nowicka, B. 1968. Simple Carboline Alkaloids. VI. Comparative Chemical Evaluation of Alkaloid Fractions From Different Sources. Inst. Przem 14 4: 235-238. Poznan Poland.
1	HARMOL	Root Bark	--	--		Gill, S., Raszeja, W. 1973. Chromatographic Analysis of Harman Alkaloid Derivatives in Some Plant Raw Materials. Rozpr Wydz 3 Nauk Mat-Przyr Gdansk Tow Nauk 8: 137-. Acad Med Danzig Poland.
1	HARMOL	Shoot	--	--		Gill, S., Raszeja, W. 1973. Chromatographic Analysis of Harman Alkaloid Derivatives in Some Plant Raw Materials. Rozpr Wydz 3 Nauk Mat Przyr Gdansk Tow Nauk 8: 137-143. Akad Med Danzig Poland.
11	ISORHAMNETIN	Fruit	--	--		Kusova, R. D., Kazakov, A. L., Luk'yanchikov, M. S. 1988. Phenolic Compounds From Fruit of <i>Elaeagnus angustifolia</i> . Chem. Nat. Comp. 24 3: 392-393. Pyatigorsk Farm Inst Pyatigorsk USSR.
11	ISORHAMNETIN	Plant	--	--		Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
75	KAEMPFEROL	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	NEO-CHLOROGENIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
64	OLEANOLIC-ACID	Bark	--	2140	1	Zhong, J. F., Jin, J. H., Li, X. P. 1991. Determination of Oleanolic Acid in Russian Olive ( <i>Elaeagnus angustifolia</i> ) by TLC-Scanning. <i>Chung Ts'ao Yao</i> 22 3: 398-399. Gansu Inst New Med Pharm Sci Lanzhou 730050 China.
64	OLEANOLIC-ACID	Plant	--	--		Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
25	P-COUMARIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Seed	--	1145	-0.6759759843568258	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
2	PALMITOLEIC-ACID	Seed	--	495	-0.2865853497815508	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
176	QUERCETIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	SINAPIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	STEARIC-ACID	Seed	--	235	-0.5602913382599791	Hetherington, M and Steck, W. 1997. Natural chemicals from northern prairie plants - the phytochemical contents of one thousand North American species. 277 pp. Ag-West Biotech, Inc. Saskatoon, Canada. Fytokem Products, Saskatoon.
93	TOCOPHEROL	Fruit	1	20	-0.5354215411219696	